

ABSTRACT OF THE DISCLOSURE

The invention is directed to a remote 3-D imaging system which uses a novel illumination source to establish the relationship of the image features to the system, which is displayed by virtue of calculations. In addition to static surfaces, moving surfaces may be studied and corrections due to turbidity and platform position are also easily compensated for. The instant system may also contain a plurality of sensing systems based on light, including traditional reflective or elastic scattering and novel fluorescent or non-elastic scattering still and video imaging systems, including time-gated systems.